### Helium Specifications

**Guaranteed Specifications**
- Helium, Research Purity 99.9999%
- Helium, Matheson Purity 99.995%
- Helium, UHP Enable 99.999%
- Helium, Ultra High Purity 99.999%

**Gas Grade Purity**
- Oxygen
- Nitrogen
- Carbon Monoxide
- Carbon Dioxide
- Argon
- Water

**Cylinder Specifications**
- Cylinder Size
- Valve Outlet CGA No.
- Pressure psig @ 70°F
- Pressure kPa @ 21.1°C
- Approximate Ship Weight lb

**Equipment Recommendations**
- Dual Stage Reg.
- Single Stage Reg.
- LB Regulator
- Leak Detector
- Outlet Plug Wrench

**Cylinder Data**
- Specific Volume
- Formula

**Shipping Information**
- CAS Registry Number
- UN Number
- ECCN Number
- DOT Proper Shipping Name
- DOT Classification
- DOT Label
- TC Classification
- TC Shipping Name

**Gas Data**
- Molecular Weight
- Density
- Specific Volume

**Guaranteed Specifications**
- Carbon Dioxide
- Carbon Monoxide
- Nitrogen
- Oxygen
- TH as Methane
- Water

**Outlet Plug Wrench**
- TW-4
- TW-4*

**Outlet Plug Wrench**
- Dual Stage Reg.
- Single Stage Reg.
- LB Regulator
- Leak Detector
- Outlet Plug Wrench

**Laboratory Analysis**
- A Certificate of Analysis is available on request.

**Quality Assurance**
- Quality is guaranteed for purity on a new free basis.

**Appendix**
- www.mathesongas.com
### Helium (continued)

<table>
<thead>
<tr>
<th>Gas Grade Purity Specifications</th>
<th>Product Code</th>
<th>Cylinder Size</th>
<th>US Content</th>
<th>Metric Content</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Helium, Zero Gas 99.995%</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Guaranteed Specifications</td>
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</tr>
<tr>
<td>THC &lt; 0.5 ppm</td>
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<tr>
<td></td>
<td>G2033112</td>
<td>1L</td>
<td>288 ft³</td>
<td>8.16 m³</td>
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<tr>
<td></td>
<td>G2033101</td>
<td>1A</td>
<td>244 ft³</td>
<td>6.91 m³</td>
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<td></td>
<td>G2033140</td>
<td>2</td>
<td>77 ft³</td>
<td>2.18 m³</td>
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<td>G2033150</td>
<td>3</td>
<td>31 ft³</td>
<td>0.88 m³</td>
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<tr>
<td></td>
<td>G2033165</td>
<td>4</td>
<td>10 ft³</td>
<td>0.28 m³</td>
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<td></td>
<td>G2033175</td>
<td>LB</td>
<td>2 ft³</td>
<td>56 L</td>
</tr>
</tbody>
</table>

A lot analysis is available on request. Please inquire for individual cylinder analysis.
*Except LB

#### Helium, High Purity 99.995%

|                                 |              |               |            |                |
|                                 | G1141112     | 1L            | 288 ft³    | 8.16 m³        |
|                                 | G1141101     | 1A            | 244 ft³    | 6.91 m³        |
|                                 | G1141140     | 2             | 77 ft³     | 2.18 m³        |
|                                 | G1141150     | 3             | 31 ft³     | 0.88 m³        |
|                                 | G1141165     | 4             | 10 ft³     | 0.28 m³        |
|                                 | G1141175     | LB            | 2 ft³      | 56 L           |

A Certificate of Conformance will be provided on request.
*Except LB

#### Helium, 3500 psig 99.995%

|                                 |              |               |            |                |
|                                 | G1141208     | 1H            | 332 ft³    | 9.40 m³        |

A Certificate of Conformance will be provided on request.

#### Helium, 6000 psig 99.995%

|                                 |              |               |            |                |
|                                 | G1141321     | 1U            | 515 ft³    | 14.58 m³       |

A Certificate of Conformance will be provided on request.

**WARNING:** This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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**Equipment Recommendations**
- Dual Stage Reg. Series 3120-580
- Single Stage Reg. Series 3530-580
- LB Regulator Series 3550-170
- Leak Detector 8066
- Cyl. Valve Wrench TW-4
- LB Regulator Series 3550-170
- Leak Detector 8066
- Cyl. Valve Wrench TW-4

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